16 JUN 2005 JC02 Rec'd PCT/PTC

PTO-1390 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Other items or information:

TRANSMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER 8054-125 (LW8088PC/US)						
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	U.S. APPLICATION NO. 41 Lawn. 57 3 CFR 1.5)						
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/KR02003/002755 December 17, 2003	PRIORITY DATE CLAIMED December 21, 2002						
TITLE OF INVENTION ARRAY SUBSTRATE, LIQUID CRYSTAL DISPLAY APPARATUS HAVING THE SAME							
AND METHOD FOR DRIVING LIQUID CRYSTAL DISPLAY APPARATUS APPLICANT(S) FOR DO/EO/US Hee-Seop KIM, Won-Sang PARK, Sang-II KIM, Dong-Sik SAKONG, Young-Chol YANG,							
Sung-Kyu HONG, Jong-Lae KIM							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
The US has been elected (Article 31).							
.5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2))							
a. is attached hereto (required only if not communicated by the Internatio	a. is attached hereto (required only if not communicated by the International Bureau).						
b. X has been communicated by the International Bureau.	b. X has been communicated by the International Bureau.						
c. is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. An English language translation of the International Application as filed (35 U.S.	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).						
a. X is attached hereto.	a. X is attached hereto.						
b. has been previously submitted under 35 U.S.C. 154(d)(4).	b. has been previously submitted under 35 U.S.C. 154(d)(4).						
7. Amendments to the claims of the International Application under PCT Article 19	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))						
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amendments has NOT expired.							
d. have not been made and will not be made.	d. have not been made and will not be made.						
8. An English language translation of the amendments to the claims under PCT A	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
10. An English language translation of the annexes of the International Preliminary Article 36 (35 U.S.C. 371(c)(5)).	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11 to 20 below concern document(s) or information included:							
11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.	·						
12. X An assignment document for recording. A separate cover sheet in compliance w	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
13. A preliminary amendment.	A preliminary amendment.						
14. An Application Data Sheet under 37 CFR 1.76.	An Application Data Sheet under 37 CFR 1.76.						
15. A substitute specification.	A substitute specification.						
16. A power of attorney and/or change of address letter.	A power of attorney and/or change of address letter.						
17. A computer-readable form of the sequence listing in accordance with PCT Rule	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.						
18. A second copy of the published International Application under 35 U.S.C. 154(d	A second copy of the published International Application under 35 U.S.C. 154(d)(4).						

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

International Search Report

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER					
10/5396/8 PCT/KR2003/002755		8054-125 (LW8088PC/US)					
The following fees have been submitted			CALCULATIONS	PTO USE ONLY			
21. X Basic national fee\$300			\$ 300.00				
22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)			\$ 200.00	VOCOT MUSECILA LEG ANTAR			
	ns			\$200		BEFORT ACCOUNT!	
23. X Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority				50 0079 PEE VOLUE			
All other situations\$500			\$ 500.00				
TOTAL OF 21, 22 and 23 ≃			\$ 1,000.00	1022 (504			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					1/2 400		
Total Sheets	Extra Sheets		ch additional 50 or fraction l up to a whole number)	RATE _		700	
- 100 =	/50 =			x \$250	\$		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).					\$		
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$		
Total claims		29 - 20 =	9	x \$ 50	\$ 450.00		
Independent clair	ns	9 -3=	6	x \$200	\$ 1,200.00 12/02/2005 WALVARAD		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) Adjustment date: 06/24/2005 GFREY		1 \$ 00000069 10539678					
TOTAL OF ABOVE CALCALATIONS =			\$ 2,650.00 ⁻⁵⁰⁰	00 DP			
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.							
SUBTOTAL =			\$ 2,650.00				
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). +			\$				
TOTAL NATIONAL FEE =			\$ 2,650.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$ 40.00				
TOTAL FEES ENCLOSED =			\$ 2,690.00				
			Amount to be refunded:	\$			
			Amount to be charged:	\$			
a. A check in the amount of \$ to cover the above fees is enclosed.							
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No50-0679 A duplicate copy of this sheet is enclosed.							
d. X Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not							
be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed							
and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO:							
Frank Chau SINATURE							
F. Chau & Associates, LLC Frank Chau							
130 Woodbury Road NAME							
Woodbury, New York 11797 34,136			,	. 0			
REGISTRATIO				ON NUMBER			



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Hee-Seop KIM et al.

Int'l. Application No.:

PCT/KR2003/002755

Int'l. Filing Date:

17 December 2003

For:

ARRAY SUBSTRATE, LIQUID CRYSTAL DISPLAY APPARATUS HAVING THE SAME AND METHOD FOR DRIVING LIQUID

CRYSTAL DISPLAY APPARATUS

Mail Stop PCT Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.10

I hereby certify that the below listed documents are being deposited with the United states Postal Service on this date <u>June 16, 2005</u> in an envelope as "Express Mail Post Office to Addressee" Mail Label Number <u>EV553755109US</u> addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

- 1. Transmittal Letter to the U.S. Designated Elected Office (DE/EO/US) Concerning a Filing under 35 U.S.C. 371
- 2. International Application as published
- 3. International Search Report
- 4. Certification Under 37 C.F.R. §1.10
- 5. Information Disclosure Statement and Form PTO-1449
- 6. 3 Sheets Declaration and Power of Attorney
- 7. Assignment Recordation Cover Sheet and 3 sheets Assignment
- 8. Credit Card Payment Forms PTO-2038 in the sum of \$2,650.00 and \$40.00

9. Return Postcard

Dated: June 16, 2005

Frank Chau

F. CHAU & ASSOCIATES, LLC 130 Woodbury Road Woodbury, NY 11797

Tel: (516) 692-8888 Fax: (516) 692-8889